

CLAIM AMENDMENTS

Claim 1 (Currently Amended)

An actinic ray curable ink comprising a colorant, ~~and~~ an epoxidized fatty acid ester or an epoxidized fatty acid glyceride and an oxetane compound,

wherein a viscosity of the ink at 23 °C is not more than 50 mPa·s.

Claim 2 (Cancelled)

Claim 3 (Original)

The actinic ray curable ink of claim 1, wherein the epoxidized fatty acid ester is epoxy methyl stearate, epoxy butyl stearate or epoxy octyl stearate.

Claim 4 (Original)

The actinic ray curable ink of claim 1, wherein the epoxidized fatty acid glyceride is a compound selected from the group consisting of epoxidized soybean oil, epoxidized castor oil and epoxidized safflower oil.

Claim 5 (Original)

The actinic ray curable ink of claim 1, wherein content of epoxidized fatty acid ester or epoxidized fatty acid glyceride is 10-80 weight % based on the total weight of the ink.

Claim 6 (Original)

The actinic ray curable ink of claim 5, wherein content of epoxidized fatty acid ester or epoxidized fatty acid glyceride is 10-50 weight % based on the total weight of the ink.

Claim 7 (Original)

The actinic ray curable ink of claim 2, wherein an ratio (A/B) of the epoxidized fatty acid ester or epoxidized fatty acid glycerides (A) to the oxetane compound (B) is 1/9 - 9/1 by weight.

Claim 8 (Currently Amended)

The actinic ray curable ink of ~~claim 2~~ claim 11, wherein the cation polymerization initiator is selected from the group consisting of diazonium salt, iodonium salt, sulfonium salt, an iron allene complex and an organic polyhalogenide compound.

Claim 9 (Cancelled)

Claim 10 (Original)

Printed matter wherein an image is formed by depositing the actinic ray curable ink of any one of claim 1 on a recording material.

Claim 11 (New)

The actinic ray curable ink of claim 1, wherein the ink further comprises a cation polymerization initiator.

Claim 12 (New)

The actinic ray curable ink of claim 1, wherein the oxetane compound is selected from the group consisting of 3-ethyl-3-hydroxymethyl oxetane, 1,4-bis[(3-ethyl-3-oxetanyl) methoxymethyl] benzene, 3-ethyl-3-(phenoxyethyl) oxetane, di(1-ethyl-3-oxetanyl) methyl ether and 3-ethyl-3-(2-ethylhexyloxymethyl) oxetane.

Claim 13 (New)

The actinic ray curable ink of claim 12, wherein the oxetane compound is selected from the group consisting of 3-ethyl-3-hydroxymethyl oxetane, 3-ethyl-3-(phenoxyethyl) oxetane and di(1-ethyl-3-oxetanyl) methyl ether.

Claim 14 (New)

An ink-jet image forming method comprising:

ejecting an ink through an ink jet head to recording materials, wherein the ink is an actinic ray curable ink of claim 1.